

Claims

- [c1] What is claimed is
1. A control system that regulates the intensity of the final image at a constant level.
- [c2] 2. The control system of claim 1, further comprising:
a diffraction grating
with spatially displaced color photo detectors
to detect the power levels of selected color components
of the illuminator output as viewed by the user.
- [c3] 3. The control system of claim 2, further comprising:
an array of color-radiating devices, e.g., LEDs, (Light
Emitting Diodes),
whose outputs are merged with the illuminator output to
maintain the respective spectra of the illuminator constant as viewed by the user.
- [c4] 4. The control system of claim 3, further comprising:
the capability of equalizing the dual paths of a comparison bridge to eliminate any differences in color quality
and intensity of the respective illuminators at the final
point of viewing

[c5] 5. A microscope illuminator that can radiate power at any discrete color.